

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A method of operating a fuel cell system, the fuel cell system comprising an enclosure and a fuel cell stack disposed inside the enclosure, the method comprising:

supplying fuel to the stack via an anode inlet;
supplying oxidant to the enclosure;
circulating the oxidant within the enclosure to mix with any fuel present in the enclosure;
withdrawing circulated oxidant from the enclosure; and
supplying at least a portion of the circulated oxidant withdrawn from the enclosure to the stack via a cathode inlet.

2. (Original) The method of claim 1, wherein the oxidant supplied to the enclosure is ambient air.

3. (Currently Amended) The method of claim 1, further comprising monitoring a fuel concentration in the enclosure, and increasing the supply of oxidant to the enclosure when the monitored fuel concentration exceeds a predetermined level.

4. (Canceled)

5. (Original) The method of claim 1, wherein supplying oxidant to the enclosure comprises varying the amount of oxidant supplied depending on at least one operational parameter of the fuel cell system.

6. (Currently Amended) The method of claim 1, further comprising recycling a portion of a fuel exhaust stream to the anode inlet, or recycling at least a portion of an oxidant exhaust stream to the cathode inlet.

7. (Canceled)

8. (Currently Amended) The method of claim 1, further comprising venting an oxidant exhaust stream outside of the enclosure, venting at least a portion of an oxidant exhaust stream to the enclosure, or venting at least a portion of a fuel exhaust stream to the enclosure.

9-10. (Canceled)

11. (Currently Amended) The method of claim 6—claim 10, wherein the portion of the fuel exhaust stream is continuously vented to the enclosure, or the portion of the fuel exhaust stream is periodically vented to the enclosure.

12-15. (Canceled)

16. (Currently Amended) The method of claim 1, wherein the ~~fuel cell system further comprises a purging device, the purging device comprising a retention vessel comprising an inlet and an outlet, and wherein the method further comprises drawing an amount of fuel exhaust into a~~ the purging device, the purging device comprising a retention vessel comprising an inlet and an outlet, the fuel exhaust being drawn into the purging device via the inlet in a first mode and expelling the fuel exhaust out of the purging device via the outlet in a second mode.

17. (Original) The method of claim 16, wherein a duration of the first mode is shorter than a duration of the second mode.

18. (Original) The fuel cell system of claim 16, wherein a duration of the first mode is between about 1 and 3 seconds.

19. (Original) The fuel cell system of claim 16, wherein a duration of the second mode is between about 60 and 90 seconds.

20. (Original) A fuel cell system comprising:
a fuel cell stack comprising a fuel supply passage and an oxidant supply passage;

the fuel supply passage comprising an anode inlet for directing a fuel stream to the fuel cell stack;

the oxidant supply passage comprising a cathode inlet for directing an oxidant stream to the fuel cell stack; and

an enclosure disposed around the fuel cell stack, the enclosure comprising an enclosure inlet passage in fluid communication with the interior of the enclosure for introducing oxidant into the enclosure; and

an enclosure outlet passage fluidly connected to the cathode inlet, for directing oxidant out of the enclosure and to the cathode inlet.

21. (Original) The fuel cell system of claim 20, further comprising a circulation device configured to introduce oxidant into the enclosure inlet passage.

22. (Currently Amended) The fuel cell system of claim 21, wherein the circulation device is disposed upstream of the enclosure inlet passage, wherein the circulation device is disposed downstream of the enclosure inlet passage, wherein the circulation device is disposed outside of the enclosure, or wherein the circulation device is disposed in the enclosure outlet passage.

23-25. (Canceled)

26. (Original) The fuel cell system of claim 21, wherein the circulation device is selected from the group consisting of a blower, a pump and a fan.

27. (Canceled)

28. (Currently Amended) The fuel cell system of claim 20, wherein the fuel supply passage is closed, or wherein the fuel supply passage is dead-ended.

29. (Canceled)

30. (Original) The fuel cell system of claim 28, wherein the fuel supply passage comprises a fuel recirculation system for recycling at least a portion of a fuel exhaust stream.

31. (Original) The fuel cell system of claim 20, wherein the fuel supply passage further comprises an anode outlet for directing at least a portion of a fuel exhaust stream to the interior of the enclosure.

32. (Original) The fuel cell system of claim 31, wherein the anode outlet comprises a purging device.

33. (Canceled)

34. (Original) The fuel cell system of claim 32, wherein the purging device comprises a retention vessel comprising an inlet and an outlet, and the purging device comprises means for drawing an amount of fuel exhaust into the purging device via the inlet when operated in a first mode and for expelling the fuel exhaust out of the purging device via the outlet when operated in a second mode.

35. (Original) The fuel cell system of claim 34, wherein the means for drawing an amount of fuel exhaust into the purging device via the inlet when operated in a first mode and for expelling the fuel exhaust out of the purging device via the outlet when operated in a second mode comprises a plunger disposed inside the retention vessel.

36. (Original) The fuel cell system of claim 20, wherein the oxidant supply passage is configured to direct an oxidant exhaust stream out of the enclosure.

37. (Original) The fuel cell system of claim 20, wherein the oxidant supply passage is configured to vent at least a portion of the oxidant exhaust stream to the interior of the enclosure.

38. (Original) The fuel cell system of claim 20, further comprising a sensor disposed within the enclosure for determining a concentration of fuel in the enclosure.

39-41. (Canceled)

42. (Original) A fuel cell system comprising:
an enclosure;
a fuel cell stack disposed within the enclosure;
a means for directing a fuel stream to the stack;
a means for supplying air to the enclosure; and
a means for withdrawing an oxidant stream from the interior of the enclosure and supplying the oxidant stream to the stack.

43. (Original) A purging device for a fuel cell system, comprising a retention vessel comprising an inlet, an outlet and means for drawing an amount of fuel exhaust into the purging device via the inlet when operated in a first mode and for expelling the fuel exhaust out of the purging device via the outlet when operated in a second mode.

44. (Original) The purging device of claim 43, wherein the means for drawing an amount of fuel exhaust into the purging device via the inlet when operated in a first mode and for expelling the fuel exhaust out of the purging device via the outlet when operated in a second mode comprises a plunger disposed inside the retention vessel.

45. (Canceled)

46. (Currently Amended) A fuel cell system comprising the purging device of claim 44~~claim 0~~, wherein a volume of the retention vessel is greater than a process fuel system volume.

47. (Original) The fuel cell system of claim 46, wherein the volume of the retention vessel is between about 25 and 50 percent greater than the process fuel system volume.